

Howard Hanson Dam Green River Flood Risk Overview

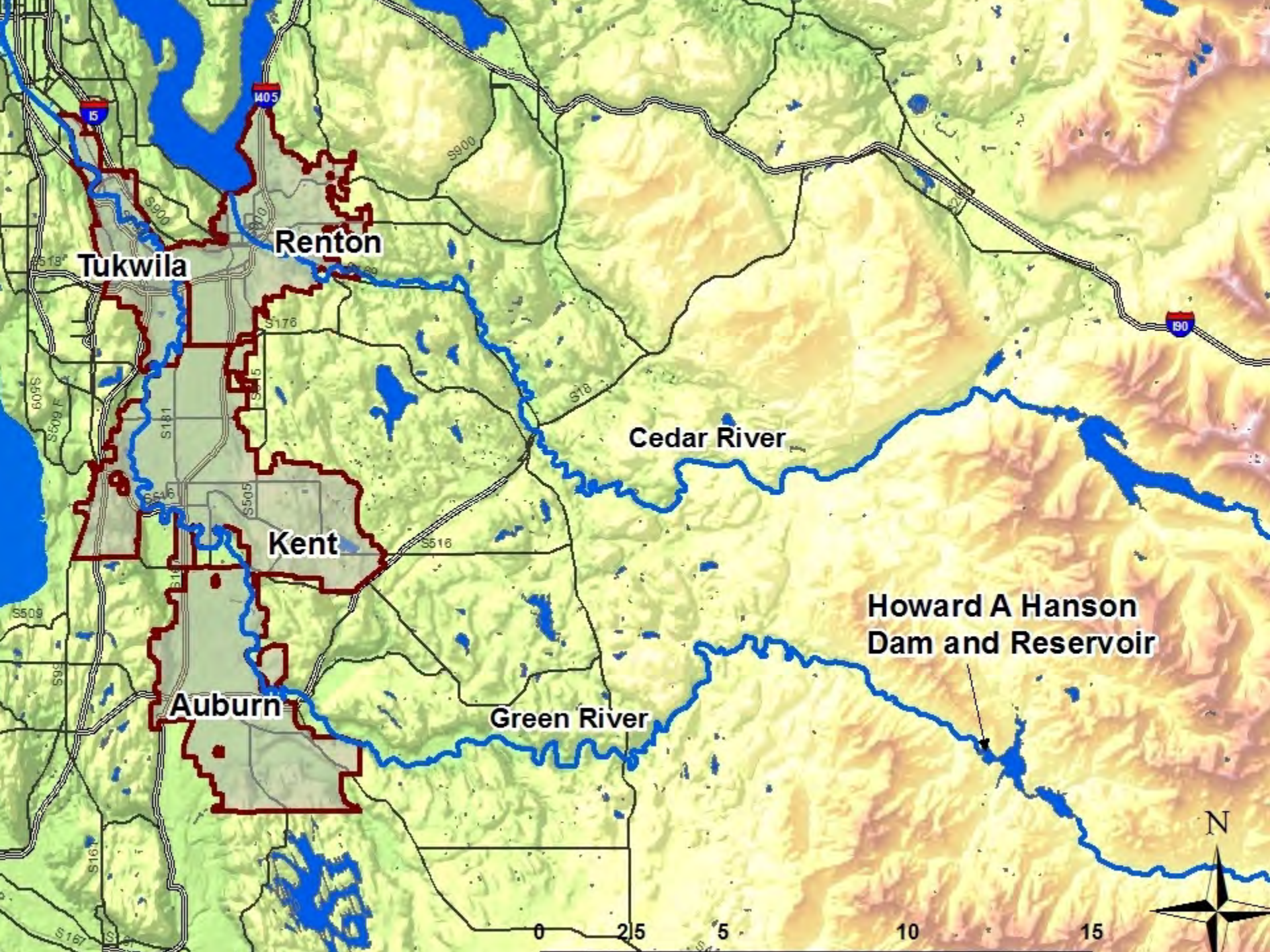
Prepared by
King County Office of Emergency Management



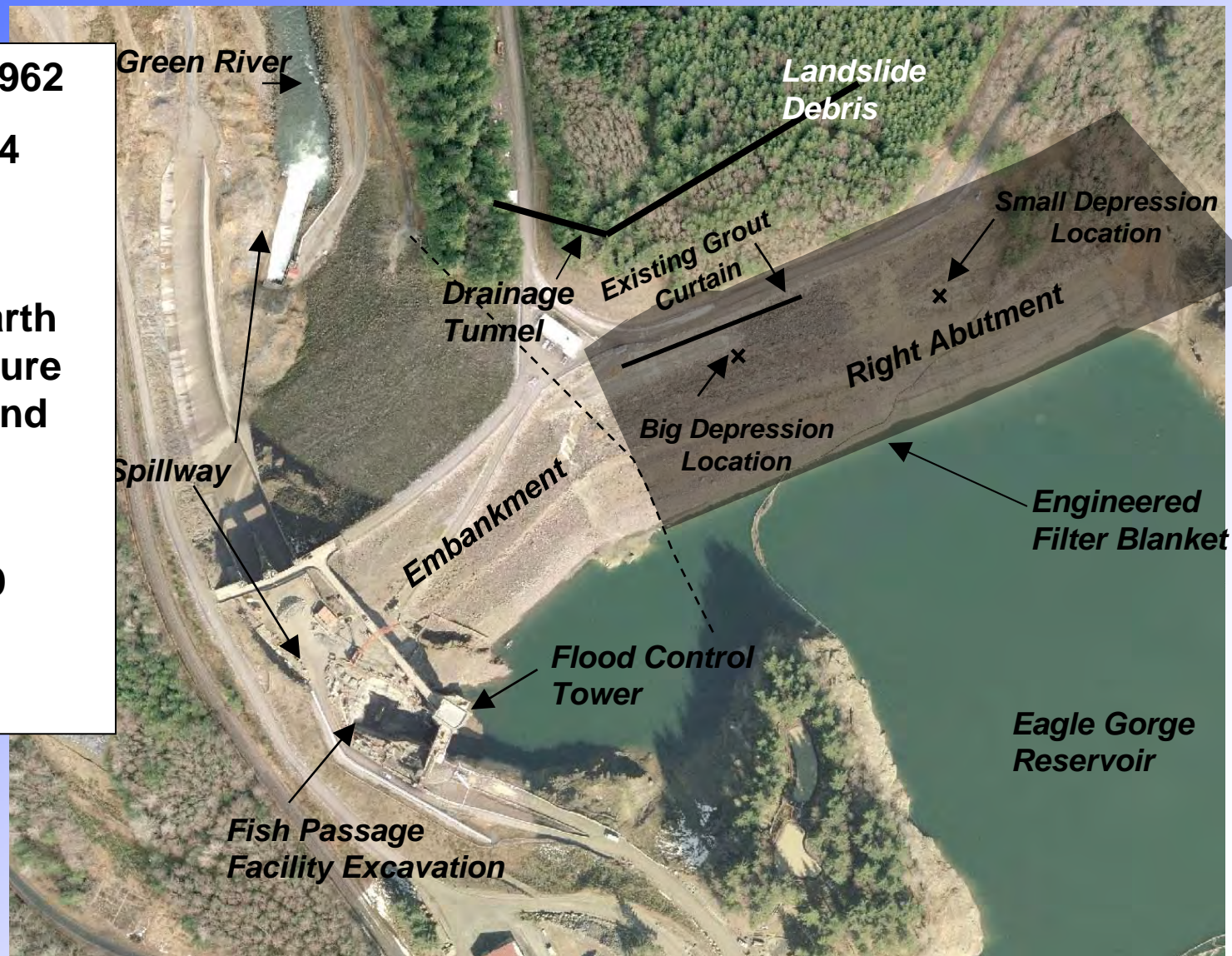
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- Constructed in 1962
- HHD is located 64 miles from Puget Sound
- The dam is an earth and rock fill structure with a sand core and gravel drain
- Drainage Tunnel Completed in 1969
- Grout Curtain installed 2002



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USACE Water Management Directions

- The Corps of Engineers will not jeopardize the Dam
- Reservoir will be kept “empty”
- Water comes in and goes out
- River will be run hard and long



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Scenarios

- Overtopping of Banks and Levees
- Degradation of Banks and Levees
- Levee Failure
- Dam Release



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Planning Efforts

- King County Government
 - Planning, mitigation, coordination, public messaging
- Regional Partners
 - Planning, coordination, public meetings
- State and Federal Support
 - Planning, resource identification



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Triggers

- Weather Forecast
- Perceived Risk
- Notification of impact or release



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Alert and Warning

- Variety of systems to reach impacted areas
 - MyStateUSA
 - Code Red
 - Reverse 911
 - Emergency Alert System (EAS)
 - RPIN
 - MEDIA



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Duration

- Notification
 - 3 – 4 days via weather service
- Response
 - Days to weeks
 - Depends on water, failures, and weather
- Recovery
 - Weeks to months
 - Depends on water, inspections, impacts



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Potential Impacts

- Inundation
- Evacuation 26,000- 30,000 people
 - Long Term Sheltering
 - 5, 000 or more displaced people
 - 3 – 4 weeks
- Infrastructure Disruption
- Re-occupancy Challenges
 - Long Term housing
 - Weeks to months or permanent relocation



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Infrastructure Impact

- Transportation
- Power
- Telecommunications
- Waste Water
- Hazardous Materials
- Food
- Medical



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Resources

- RPIN.org
- www.kingcounty.gov/prepare
- www.gismaps.kingcounty.gov/roadalert

The screenshot shows the King County Transportation Road Alert website. The header includes navigation links: HOME, NEWS, SERVICES, DIRECTORY, CONTACT, and a search bar. The main title is "Transportation Road Alert". Below the header, there's a section for "King County Road closures and conditions" with a "Subscribe to e-mail alerts" link. A "Show" section allows filtering by "Travel alerts" (checked), "King County" (checked), "WSDOT" (checked), and "Traffic cameras" (checked). The "King County Road Alert" section states: "Expect lengthy delays on 444th Avenue SE near North Bend Sept. 16-17". It includes a "View the spotlight" link and a table of road closures.

Status	Location
Upcoming closure	444th Ave SE between SE 150th St and SE 151st St
Open	172nd Ave SE at Little Soos Creek Bridge
Open	SE 244th St at Soos Creek Bridge
Restricted	Avondale Rd NE between NE 144th Pl and NE 151st St
Restricted	444th Ave SE @ 15005
Restricted	SE May Valley Rd just west of Issaquah Hobart Rd
Restricted	240th Ave SE at 15 Mile Creek Bridge
Restricted	318th Ave NE just north of

The map shows the Puget Sound area with various road closures marked by red and yellow icons. A legend at the bottom explains the icons: Closed - King County (red circle), Closed - WSDOT (red diamond), Restricted - King County (yellow circle), Restricted - WSDOT (yellow diamond), Open - King County (green circle), Upcoming closure - King County (blue circle), Upcoming closure - WSDOT (blue diamond), Traffic camera (yellow camera icon), and Spotlight (yellow star icon). A "Tips for navigating" section provides instructions for using the map's navigation tools.

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Flood Mitigation Devices

Aquadam Water Bladder



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